

Weekly Report

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Intro

This week I wrote a brief plan of the next three projects and implemented the community extraction algorithm. There still exists some issue on the implementation.

Reading

In this week I began to read some basic textbooks on cognitive psychology to prepare for the sensemaking project.

Skills

None.

Research

I read [1] to implement the community extraction algorithm. This paper only present an optimization target without any solutions, so I also did a brief survey on combinatorial optimization in order to figure out the Tabu Search Algorithm used to solve the optimization problem. The Python prototype program has been finished and passed a test on a dataset mentioned in the paper, however it still suffers from some bugs and cannot pass the other datasets. I will figure out this problem next week.

Miscellaneous Work

None.

Plan for Next Week

- Debug the community extraction algorithm and start to migrate the interface;
- prepare for the course report on Tuesday.

References

- [1] Y. Zhao, E. Levina, and J. Zhu, “Community extraction for social networks,” *Proceedings of the National Academy of Sciences*, vol. 108, no. 18, pp. 7321–7326, 2011.